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Specification Sheet

D-PANTHENOL USP

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
DPAXCL	3285	81-13-0	February 7, 2012	AR	No. 4	MPR

CHARACTERISTICS:	Colorless, clear, viscous liquid which may crystallize on prolonged storage; practically odorless; slightly hygroscopic. Freely soluble in water, propylene glycol and methanol; soluble in ethanol and chloroform; insoluble in fats and oils.
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SPECIFICATIONS:	Identification	To pass test
	Assay (on dry basis)	98.0-102.0%
	Specific rotation @ 589 nm	+29.0° to +31.5°
	Refractive index @ 589 nm, 20°C	1.495-1.502
	Moisture	1.0% max
	Residue on ignition	0.1% max
	Aminopropanol	1.0% max
	Heavy metals	20 ppm max
Residual solvents	No solvents used	

STOCKING POINTS:	Chicago, IL
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PACKAGING:	20 kg cartons packed with two 10 kg tins per carton
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APPLICATIONS:	<p>It is a moisturizing and conditioning agent and a source of vitamin B5 for use in hair care and skin care products. Primary use is in all hair care products making split end repair claims (shampoos, conditioners, salon products). DL-Panthenol is applied in almost all types of cosmetic preparations. D-Panthenol is the provitamin of D-Panthenic Acid (Vitamin B5), which plays a key role in the human intermediary metabolism. Deficiency of Vitamin B5 can result in many dermatological disorders.</p> <p>In skin it is a deep penetrating moisturizer; stimulates epithelisation (fibroblast proliferation and normal keratinization); has a positive effect on wound healing and is an anti-inflammatory.</p> <p>In hair it is a long lasting moisturizer; prevents damaged hair; thickens hair; improves luster and sheen.</p> <p>In nail care improves hydration and imparts flexibility.</p>
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SPECIAL STORAGE INSTRUCTIONS:	Stable to air and light. Shelf life of at least 24 months if stored in sealed original containers at room temperature.
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OTHER:	D-Panthenol is less widely used than DL-Panthenol, due to greater difficulty in using this viscous liquid, but affords the user much lower cost as it is approximately twice the strength of DL-Panthenol.
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